



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/893,543	06/29/2001	Royi Friedman	FRIEDMAN=2	4467
1444	7590	11/04/2004	EXAMINER ZHENG, EVA Y	
BROWDY AND NEIMARK, P.L.L.C. 624 NINTH STREET, NW SUITE 300 WASHINGTON, DC 20001-5303			ART UNIT 2634	

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary**Application No.**

09/893,543

Applicant(s)

FRIEDMAN, ROYI

Examiner

Eva Yi Zheng

Art Unit

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 1-12 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2/12/03</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 1, 3, 5 and 8 are objected to because of the following informalities:
 - a) Regarding claim 1:
 - 1) Please change the recitation: "said initial binary state" to -- an initial binary state --.
 - 2) Please change the recitation: "said D memory cells" to --D memory cells--.
 - 3) Please change the recitation: "said one or more cells a single memory cell" to -- a single memory cell --.
 - b) Regarding claim 3, please change the recitation: "said K binary states" to-- K binary states--.
 - c) Regarding claim 5, please change the recitation: "said operation being performed" to -- operation being performed--.
 - d) Regarding claim 8:
 - 1) Please change the recitation: "said "K" states" to -- "k" states--.
 - 2) Please change the recitation: "said D memory cells" to -- D memory cells--.
 - 3) Please change the recitation: "said period signature" to -- a period signature--.
 - 4) Please change the recitation: "said D cells" to -- D cells--.
2. Claims 1 and 8 are objected to because of the following informalities:

Please define "C", "D" and "k" in claim limitations.

Allowable Subject Matter

3. Claims 1-12 would be allowable if rewritten to overcome the objections, set forth in this Office action.

4. The following is a statement of reasons for the indication of allowable subject matter:

None of the prior art suggests or teaches a method for detecting a periodic binary signature in a binary signal including transmitting binary symbols at a predetermined bit rate, providing period binary signature, and providing a state machine. The state machine comprise a memory block with independent memory cells each being cyclically connected to a logic scheme, which capable of registering successive binary states of the state machine as an initial state and a terminal state. A control unit for switching the logical scheme to memory cells according to their serial numbers and in a cyclical manner at a rate equal to the bit rate of signal. The control unit continuously checking if at least one cell has registered in the terminal state. If one and the same initial binary state is assigned to all the cells in the memory block, and if binary signal is applied to the state machine at its bit rate, each bit in any group of successive bits of the binary signal will be processed using a particular cell of the memory cells, thereby associating each of the memory cells with a particular bit in any group of the successive bits and allowing periodic signature formed by a particular bit within successive bits to be detected by the respective particular memory cells.

Conclusion

5. This application is in condition for allowance except for the following formal matters:

See description above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eva Yi Zheng whose telephone number is (571) 272-3049. The examiner can normally be reached on 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-879-9306.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)


Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Art Unit: 2634

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Eva Yi Zheng
Examiner
Art Unit 2634

October 25, 2004

A handwritten signature in black ink, appearing to read 'Shuwang Liu', written in a cursive style.

SHUWANG LIU
PRIMARY EXAMINER